

Christopher Paul RÃ¼ger

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

1,093
citations

471509

17
h-index

414414

32
g-index

48
all docs

48
docs citations

48
times ranked

1337
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Innovative methods in soil phosphorus research: A review. <i>Journal of Plant Nutrition and Soil Science</i> , 2015, 178, 43-88. | 1.9 | 256 |
| 2 | Particulate Matter from Both Heavy Fuel Oil and Diesel Fuel Shipping Emissions Show Strong Biological Effects on Human Lung Cells at Realistic and Comparable In Vitro Exposure Conditions. <i>PLoS ONE</i> , 2015, 10, e0126536. | 2.5 | 111 |
| 3 | Aerosol emissions of a ship diesel engine operated with diesel fuel or heavy fuel oil. <i>Environmental Science and Pollution Research</i> , 2017, 24, 10976-10991. | 5.3 | 65 |
| 4 | Real time monitoring of slow pyrolysis of polyethylene terephthalate (PET) by different mass spectrometric techniques. <i>Waste Management</i> , 2020, 106, 226-239. | 7.4 | 55 |
| 5 | Hyphenation of Thermal Analysis to Ultrahigh-Resolution Mass Spectrometry (Fourier Transform Ion) Tj ETQq1 1 0.784314 rgBT /Overbo Studying Composition and Thermal Degradation of Complex Materials. <i>Analytical Chemistry</i> , 2015, 87, 6493-6499. | 6.5 | 50 |
| 6 | Thermal Analysis Coupled to Ultrahigh Resolution Mass Spectrometry with Collision Induced Dissociation for Complex Petroleum Samples: Heavy Oil Composition and Asphaltene Precipitation Effects. <i>Energy & Fuels</i> , 2017, 31, 13144-13158. | 5.1 | 44 |
| 7 | Structural analysis of heavy oil fractions after hydrodenitrogenation by high-resolution tandem mass spectrometry and Åion mobility spectrometry. <i>Faraday Discussions</i> , 2019, 218, 417-430. | 3.2 | 43 |
| 8 | Combination of Different Thermal Analysis Methods Coupled to Mass Spectrometry for the Analysis of Asphaltenes and Their Parent Crude Oils: Comprehensive Characterization of the Molecular Pyrolysis Pattern. <i>Energy & Fuels</i> , 2018, 32, 2699-2711. | 5.1 | 42 |
| 9 | Characterisation of ship diesel primary particulate matter at the molecular level by means of ultra-high-resolution mass spectrometry coupled to laser desorption ionisationâ€™ comparison of feed fuel, filter extracts and direct particle measurements. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5923-5937. | 3.7 | 29 |
| 10 | Exploring Complex Mixtures by Cyclic Ion Mobility High-Resolution Mass Spectrometry: Application Toward Petroleum. <i>Analytical Chemistry</i> , 2021, 93, 5872-5881. | 6.5 | 25 |
| 11 | Investigation of Island/Single-Core- and Archipelago/Multicore-Enriched Asphaltenes and Their Solubility Fractions by Thermal Analysis Coupled with High-Resolution Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 3808-3824. | 5.1 | 25 |
| 12 | Gas Chromatography Coupled to Atmospheric Pressure Chemical Ionization FT-ICR Mass Spectrometry for Improvement of Data Reliability. <i>Analytical Chemistry</i> , 2015, 87, 11957-11961. | 6.5 | 23 |
| 13 | Investigation of Aging Processes in Bitumen at the Molecular Level with High-Resolution Fourier-Transform Ion Cyclotron Mass Spectrometry and Two-Dimensional Gas Chromatography Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 10641-10654. | 5.1 | 22 |
| 14 | Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021, 35, 16335-16376. | 5.1 | 21 |
| 15 | Comprehensive chemical comparison of fuel composition and aerosol particles emitted from a ship diesel engine by gas chromatography atmospheric pressure chemical ionisation ultra-high resolution mass spectrometry with improved data processing routines. <i>European Journal of Mass Spectrometry</i> , 2017, 23, 28-39. | 1.0 | 20 |
| 16 | Review on Evolved Gas Analysis Mass Spectrometry with Soft Photoionization for the Chemical Description of Petroleum, Petroleum-Derived Materials, and Alternative Feedstocks. <i>Energy & Fuels</i> , 2021, 35, 18308-18332. | 5.1 | 20 |
| 17 | Investigating the Trace Polar Species Present in Diesel Using High-Resolution Mass Spectrometry and Selective Ionization Techniques. <i>Energy & Fuels</i> , 2015, 29, 5554-5562. | 5.1 | 18 |
| 18 | Exposure to naphthalene and Î²-pinene-derived secondary organic aerosol induced divergent changes in transcript levels of BEAS-2B cells. <i>Environment International</i> , 2022, 166, 107366. | 10.0 | 18 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Toxicity of Water- and Organic-Soluble Wood Tar Fractions from Biomass Burning in Lung Epithelial Cells. <i>Chemical Research in Toxicology</i> , 2021, 34, 1588-1603. | 3.3 | 17 |
| 20 | Direct inlet probe – High-resolution time-of-flight mass spectrometry as fast technique for the chemical description of complex high-boiling samples. <i>Talanta</i> , 2019, 202, 308-316. | 5.5 | 16 |
| 21 | Direct Inlet Probe Atmospheric Pressure Photo and Chemical Ionization Coupled to Ultrahigh Resolution Mass Spectrometry for the Description of Lignocellulosic Biomass. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 822-831. | 2.8 | 15 |
| 22 | pH modifies the oxidative potential and peroxide content of biomass burning HULIS under dark aging. <i>Science of the Total Environment</i> , 2022, 834, 155365. | 8.0 | 13 |
| 23 | Structural Study of Analogues of Titan’s Haze by Trapped Ion Mobility Coupled with a Fourier Transform Ion Cyclotron Mass Spectrometer. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 1169-1173. | 2.8 | 12 |
| 24 | Molecular Characterization of Water-Soluble Aerosol Particle Extracts by Ultrahigh-Resolution Mass Spectrometry: Observation of Industrial Emissions and an Atmospherically Aged Wildfire Plume at Lake Baikal. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 1095-1107. | 2.7 | 12 |
| 25 | Structural analysis of petroporphyrins from asphaltene by trapped ion mobility coupled with Fourier transform ion cyclotron resonance mass spectrometry. <i>Analyst</i> , 2021, 146, 4161-4171. | 3.5 | 11 |
| 26 | Mass spectrometric characterization of limited proteolysis activity in human plasma samples under mild acidic conditions. <i>Methods</i> , 2015, 89, 30-37. | 3.8 | 10 |
| 27 | Description of Steam Cracker Fouling and Coking Residues by Thermal Analysis-Photoionization Mass Spectrometry. <i>Energy & Fuels</i> , 2019, 33, 11592-11602. | 5.1 | 10 |
| 28 | Structural Analysis of Neutral Nitrogen Compounds Refractory to the Hydrodenitrogenation Process of Heavy Oil Fractions by High-Resolution Tandem Mass Spectrometry and Ion Mobility – Mass Spectrometry. <i>Energy & Fuels</i> , 2020, 34, 9328-9338. | 5.1 | 10 |
| 29 | Vacuum Laser Photoionization inside the C-trap of an Orbitrap Mass Spectrometer: Resonance-Enhanced Multiphoton Ionization High-Resolution Mass Spectrometry. <i>Analytical Chemistry</i> , 2021, 93, 9418-9427. | 6.5 | 10 |
| 30 | Effect of hydrothermal carbonization and eutectic salt mixture (KCl/LiCl) on the pyrolysis of Kraft lignin as revealed by thermal analysis coupled to advanced high-resolution mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 166, 105604. | 5.5 | 10 |
| 31 | Optimization of ion trajectories in a dynamically harmonized Fourier – transform ion cyclotron resonance cell using a design of experiments strategy. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8659. | 1.5 | 9 |
| 32 | Comprehensive Chemical Description of Pyrolysis Chars from Low-Density Polyethylene by Thermal Analysis Hyphenated to Different Mass Spectrometric Approaches. <i>Energy & Fuels</i> , 2021, 35, 18185-18193. | 5.1 | 9 |
| 33 | Speciation of organosulfur compounds in carbonaceous chondrites. <i>Scientific Reports</i> , 2021, 11, 7410. | 3.3 | 8 |
| 34 | Atmospheric Pressure Single Photon Laser Ionization (APSPLI) Mass Spectrometry Using a 157 nm Fluorine Excimer Laser for Sensitive and Selective Detection of Non- to Semipolar Hydrocarbons. <i>Analytical Chemistry</i> , 2021, 93, 3691-3697. | 6.5 | 7 |
| 35 | Cyclic Ion Mobility Spectrometry Coupled to High-Resolution Time-of-Flight Mass Spectrometry Equipped with Atmospheric Solid Analysis Probe for the Molecular Characterization of Combustion Particulate Matter. <i>Journal of the American Society for Mass Spectrometry</i> , 2021, 32, 206-217. | 2.8 | 6 |
| 36 | Direct Insertion Analysis of Polymer-Modified Bitumen by Atmospheric Pressure Chemical Ionization Ultrahigh-Resolution Mass Spectrometry. <i>Energy & Fuels</i> , 2021, 35, 2165-2173. | 5.1 | 5 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | High resolution techniques: general discussion. Faraday Discussions, 2019, 218, 247-267. | 3.2 | 4 |
| 38 | Ion mobility mass spectrometry of in situ generated biomass pyrolysis products. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105164. | 5.5 | 4 |
| 39 | Impact of Thermal Stress on Abrasive Dust from a Carbon Fiber-Reinforced Concrete Composite. Fibers, 2022, 10, 39. | 4.0 | 3 |
| 40 | Using aromatic polyamines with high proton affinity as "proton sponge" dopants for electrospray ionisation mass spectrometry. European Journal of Mass Spectrometry, 2017, 23, 49-54. | 1.0 | 2 |
| 41 | Characterization of Polyethylene Branching by Thermal Analysis-Photoionization Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2020, 31, 2362-2369. | 2.8 | 2 |
| 42 | Dealing with complexity: general discussion. Faraday Discussions, 2019, 218, 138-156. | 3.2 | 1 |